

Global Limit Switch For Ships Market Professional Survey Report 2017

<https://marketpublishers.com/r/G99BB343529EN.html>

Date: October 2017

Pages: 114

Price: US\$ 3,500.00 (Single User License)

ID: G99BB343529EN

Abstracts

This report studies Limit Switch For Ships in Global market, especially in North America, China, Europe, Southeast Asia, Japan and India, with production, revenue, consumption, import and export in these regions, from 2012 to 2016, and forecast to 2022.

This report focuses on top manufacturers in global market, with production, price, revenue and market share for each manufacturer, covering

Aleko

ABB

SKF

3M

Siemens

Honeywell

General Electric

Crouzet

Unimax

Schneider Electric

Allen-Bradley

CPI

Jameco Valuepro

Mayr

Eaton

SAMSON

CROUZET SWITCHES

BERNSTEIN AG

Yaskawa Controls

On the basis of product, this report displays the production, revenue, price, market share and growth rate of each type, primarily split into

Heavy-Duty Precision

Miniature Enclosed Reed

Gravity Return

Snap Switch

Others

By Application, the market can be split into

Fishing Ships

Traveling Ships

Transporting Ships

Military Ships

Others

By Regions, this report covers (we can add the regions/countries as you want)

North America

China

Europe

Southeast Asia

Japan

India

If you have any special requirements, please let us know and we will offer you the report as you want.

Contents

Global Limit Switch For Ships Market Professional Survey Report 2017

1 INDUSTRY OVERVIEW OF LIMIT SWITCH FOR SHIPS

1.1 Definition and Specifications of Limit Switch For Ships

- 1.1.1 Definition of Limit Switch For Ships
- 1.1.2 Specifications of Limit Switch For Ships

1.2 Classification of Limit Switch For Ships

- 1.2.1 Heavy-Duty Precision
- 1.2.2 Miniature Enclosed Reed
- 1.2.3 Gravity Return
- 1.2.4 Snap Switch
- 1.2.5 Others

1.3 Applications of Limit Switch For Ships

- 1.3.1 Fishing Ships
- 1.3.2 Traveling Ships
- 1.3.3 Transporting Ships
- 1.3.4 Military Ships
- 1.3.5 Others

1.4 Market Segment by Regions

- 1.4.1 North America
- 1.4.2 China
- 1.4.3 Europe
- 1.4.4 Southeast Asia
- 1.4.5 Japan
- 1.4.6 India

2 MANUFACTURING COST STRUCTURE ANALYSIS OF LIMIT SWITCH FOR SHIPS

2.1 Raw Material and Suppliers

2.2 Manufacturing Cost Structure Analysis of Limit Switch For Ships

2.3 Manufacturing Process Analysis of Limit Switch For Ships

2.4 Industry Chain Structure of Limit Switch For Ships

3 TECHNICAL DATA AND MANUFACTURING PLANTS ANALYSIS OF LIMIT SWITCH FOR SHIPS

3.1 Capacity and Commercial Production Date of Global Limit Switch For Ships Major Manufacturers in 2016

3.2 Manufacturing Plants Distribution of Global Limit Switch For Ships Major Manufacturers in 2016

3.3 R&D Status and Technology Source of Global Limit Switch For Ships Major Manufacturers in 2016

3.4 Raw Materials Sources Analysis of Global Limit Switch For Ships Major Manufacturers in 2016

4 GLOBAL LIMIT SWITCH FOR SHIPS OVERALL MARKET OVERVIEW

4.1 2012-2017E Overall Market Analysis

4.2 Capacity Analysis

4.2.1 2012-2017E Global Limit Switch For Ships Capacity and Growth Rate Analysis

4.2.2 2016 Limit Switch For Ships Capacity Analysis (Company Segment)

4.3 Sales Analysis

4.3.1 2012-2017E Global Limit Switch For Ships Sales and Growth Rate Analysis

4.3.2 2016 Limit Switch For Ships Sales Analysis (Company Segment)

4.4 Sales Price Analysis

4.4.1 2012-2017E Global Limit Switch For Ships Sales Price

4.4.2 2016 Limit Switch For Ships Sales Price Analysis (Company Segment)

5 LIMIT SWITCH FOR SHIPS REGIONAL MARKET ANALYSIS

5.1 North America Limit Switch For Ships Market Analysis

5.1.1 North America Limit Switch For Ships Market Overview

5.1.2 North America 2012-2017E Limit Switch For Ships Local Supply, Import, Export, Local Consumption Analysis

5.1.3 North America 2012-2017E Limit Switch For Ships Sales Price Analysis

5.1.4 North America 2016 Limit Switch For Ships Market Share Analysis

5.2 China Limit Switch For Ships Market Analysis

5.2.1 China Limit Switch For Ships Market Overview

5.2.2 China 2012-2017E Limit Switch For Ships Local Supply, Import, Export, Local Consumption Analysis

5.2.3 China 2012-2017E Limit Switch For Ships Sales Price Analysis

5.2.4 China 2016 Limit Switch For Ships Market Share Analysis

5.3 Europe Limit Switch For Ships Market Analysis

5.3.1 Europe Limit Switch For Ships Market Overview

5.3.2 Europe 2012-2017E Limit Switch For Ships Local Supply, Import, Export, Local Consumption Analysis

5.3.3 Europe 2012-2017E Limit Switch For Ships Sales Price Analysis

5.3.4 Europe 2016 Limit Switch For Ships Market Share Analysis

5.4 Southeast Asia Limit Switch For Ships Market Analysis

5.4.1 Southeast Asia Limit Switch For Ships Market Overview

5.4.2 Southeast Asia 2012-2017E Limit Switch For Ships Local Supply, Import, Export, Local Consumption Analysis

5.4.3 Southeast Asia 2012-2017E Limit Switch For Ships Sales Price Analysis

5.4.4 Southeast Asia 2016 Limit Switch For Ships Market Share Analysis

5.5 Japan Limit Switch For Ships Market Analysis

5.5.1 Japan Limit Switch For Ships Market Overview

5.5.2 Japan 2012-2017E Limit Switch For Ships Local Supply, Import, Export, Local Consumption Analysis

5.5.3 Japan 2012-2017E Limit Switch For Ships Sales Price Analysis

5.5.4 Japan 2016 Limit Switch For Ships Market Share Analysis

5.6 India Limit Switch For Ships Market Analysis

5.6.1 India Limit Switch For Ships Market Overview

5.6.2 India 2012-2017E Limit Switch For Ships Local Supply, Import, Export, Local Consumption Analysis

5.6.3 India 2012-2017E Limit Switch For Ships Sales Price Analysis

5.6.4 India 2016 Limit Switch For Ships Market Share Analysis

6 GLOBAL 2012-2017E LIMIT SWITCH FOR SHIPS SEGMENT MARKET ANALYSIS (BY TYPE)

6.1 Global 2012-2017E Limit Switch For Ships Sales by Type

6.2 Different Types of Limit Switch For Ships Product Interview Price Analysis

6.3 Different Types of Limit Switch For Ships Product Driving Factors Analysis

6.3.1 Heavy-Duty Precision of Limit Switch For Ships Growth Driving Factor Analysis

6.3.2 Miniature Enclosed Reed of Limit Switch For Ships Growth Driving Factor Analysis

6.3.3 Gravity Return of Limit Switch For Ships Growth Driving Factor Analysis

6.3.4 Snap Switch of Limit Switch For Ships Growth Driving Factor Analysis

6.3.5 Others of Limit Switch For Ships Growth Driving Factor Analysis

7 GLOBAL 2012-2017E LIMIT SWITCH FOR SHIPS SEGMENT MARKET ANALYSIS (BY APPLICATION)

- 7.1 Global 2012-2017E Limit Switch For Ships Consumption by Application
- 7.2 Different Application of Limit Switch For Ships Product Interview Price Analysis
- 7.3 Different Application of Limit Switch For Ships Product Driving Factors Analysis
 - 7.3.1 Fishing Ships of Limit Switch For Ships Growth Driving Factor Analysis
 - 7.3.2 Traveling Ships of Limit Switch For Ships Growth Driving Factor Analysis
 - 7.3.3 Transporting Ships of Limit Switch For Ships Growth Driving Factor Analysis
 - 7.3.4 Military Ships of Limit Switch For Ships Growth Driving Factor Analysis
 - 7.3.5 Others of Limit Switch For Ships Growth Driving Factor Analysis

8 MAJOR MANUFACTURERS ANALYSIS OF LIMIT SWITCH FOR SHIPS

8.1 Aleko

8.1.1 Company Profile

8.1.2 Product Picture and Specifications

8.1.2.1 Product A

8.1.2.2 Product B

8.1.3 Aleko 2016 Limit Switch For Ships Sales, Ex-factory Price, Revenue, Gross Margin Analysis

8.1.4 Aleko 2016 Limit Switch For Ships Business Region Distribution Analysis

8.2 ABB

8.2.1 Company Profile

8.2.2 Product Picture and Specifications

8.2.2.1 Product A

8.2.2.2 Product B

8.2.3 ABB 2016 Limit Switch For Ships Sales, Ex-factory Price, Revenue, Gross Margin Analysis

8.2.4 ABB 2016 Limit Switch For Ships Business Region Distribution Analysis

8.3 SKF

8.3.1 Company Profile

8.3.2 Product Picture and Specifications

8.3.2.1 Product A

8.3.2.2 Product B

8.3.3 SKF 2016 Limit Switch For Ships Sales, Ex-factory Price, Revenue, Gross Margin Analysis

8.3.4 SKF 2016 Limit Switch For Ships Business Region Distribution Analysis

8.4 3M

8.4.1 Company Profile

8.4.2 Product Picture and Specifications

8.4.2.1 Product A

8.4.2.2 Product B

8.4.3 3M 2016 Limit Switch For Ships Sales, Ex-factory Price, Revenue, Gross Margin Analysis

8.4.4 3M 2016 Limit Switch For Ships Business Region Distribution Analysis

8.5 Siemens

8.5.1 Company Profile

8.5.2 Product Picture and Specifications

8.5.2.1 Product A

8.5.2.2 Product B

8.5.3 Siemens 2016 Limit Switch For Ships Sales, Ex-factory Price, Revenue, Gross Margin Analysis

8.5.4 Siemens 2016 Limit Switch For Ships Business Region Distribution Analysis

8.6 Honeywell

8.6.1 Company Profile

8.6.2 Product Picture and Specifications

8.6.2.1 Product A

8.6.2.2 Product B

8.6.3 Honeywell 2016 Limit Switch For Ships Sales, Ex-factory Price, Revenue, Gross Margin Analysis

8.6.4 Honeywell 2016 Limit Switch For Ships Business Region Distribution Analysis

8.7 General Electric

8.7.1 Company Profile

8.7.2 Product Picture and Specifications

8.7.2.1 Product A

8.7.2.2 Product B

8.7.3 General Electric 2016 Limit Switch For Ships Sales, Ex-factory Price, Revenue, Gross Margin Analysis

8.7.4 General Electric 2016 Limit Switch For Ships Business Region Distribution Analysis

8.8 Crouzet

8.8.1 Company Profile

8.8.2 Product Picture and Specifications

8.8.2.1 Product A

8.8.2.2 Product B

8.8.3 Crouzet 2016 Limit Switch For Ships Sales, Ex-factory Price, Revenue, Gross Margin Analysis

8.8.4 Crouzet 2016 Limit Switch For Ships Business Region Distribution Analysis

8.9 Unimax

8.9.1 Company Profile

- 8.9.2 Product Picture and Specifications
 - 8.9.2.1 Product A
 - 8.9.2.2 Product B
- 8.9.3 Unimax 2016 Limit Switch For Ships Sales, Ex-factory Price, Revenue, Gross Margin Analysis
- 8.9.4 Unimax 2016 Limit Switch For Ships Business Region Distribution Analysis
- 8.10 Schneider Electric
 - 8.10.1 Company Profile
 - 8.10.2 Product Picture and Specifications
 - 8.10.2.1 Product A
 - 8.10.2.2 Product B
 - 8.10.3 Schneider Electric 2016 Limit Switch For Ships Sales, Ex-factory Price, Revenue, Gross Margin Analysis
 - 8.10.4 Schneider Electric 2016 Limit Switch For Ships Business Region Distribution Analysis
- 8.11 Allen-Bradley
- 8.12 CPI
- 8.13 Jameco Valuepro
- 8.14 Mayr
- 8.15 Eaton
- 8.16 SAMSON
- 8.17 CROUZET SWITCHES
- 8.18 BERNSTEIN AG
- 8.19 Yaskawa Controls

9 DEVELOPMENT TREND OF ANALYSIS OF LIMIT SWITCH FOR SHIPS MARKET

- 9.1 Global Limit Switch For Ships Market Trend Analysis
 - 9.1.1 Global 2017-2022 Limit Switch For Ships Market Size (Volume and Value) Forecast
 - 9.1.2 Global 2017-2022 Limit Switch For Ships Sales Price Forecast
- 9.2 Limit Switch For Ships Regional Market Trend
 - 9.2.1 North America 2017-2022 Limit Switch For Ships Consumption Forecast
 - 9.2.2 China 2017-2022 Limit Switch For Ships Consumption Forecast
 - 9.2.3 Europe 2017-2022 Limit Switch For Ships Consumption Forecast
 - 9.2.4 Southeast Asia 2017-2022 Limit Switch For Ships Consumption Forecast
 - 9.2.5 Japan 2017-2022 Limit Switch For Ships Consumption Forecast
 - 9.2.6 India 2017-2022 Limit Switch For Ships Consumption Forecast
- 9.3 Limit Switch For Ships Market Trend (Product Type)

9.4 Limit Switch For Ships Market Trend (Application)

10 LIMIT SWITCH FOR SHIPS MARKETING TYPE ANALYSIS

10.1 Limit Switch For Ships Regional Marketing Type Analysis

10.2 Limit Switch For Ships International Trade Type Analysis

10.3 Traders or Distributors with Contact Information of Limit Switch For Ships by Region

10.4 Limit Switch For Ships Supply Chain Analysis

11 CONSUMERS ANALYSIS OF LIMIT SWITCH FOR SHIPS

11.1 Consumer 1 Analysis

11.2 Consumer 2 Analysis

11.3 Consumer 3 Analysis

11.4 Consumer 4 Analysis

12 CONCLUSION OF THE GLOBAL LIMIT SWITCH FOR SHIPS MARKET PROFESSIONAL SURVEY REPORT 2017

Methodology

Analyst Introduction

Data Source

The report requires updating with new data and is sent in 2-3 business days after order is placed.

List Of Tables

LIST OF TABLES AND FIGURES

Figure Picture of Limit Switch For Ships
Table Product Specifications of Limit Switch For Ships
Table Classification of Limit Switch For Ships
Figure Global Production Market Share of Limit Switch For Ships by Type in 2016
Figure Heavy-Duty Precision Picture
Table Major Manufacturers of Heavy-Duty Precision
Figure Miniature Enclosed Reed Picture
Table Major Manufacturers of Miniature Enclosed Reed
Figure Gravity Return Picture
Table Major Manufacturers of Gravity Return
Figure Snap Switch Picture
Table Major Manufacturers of Snap Switch
Figure Others Picture
Table Major Manufacturers of Others
Table Applications of Limit Switch For Ships
Figure Global Consumption Volume Market Share of Limit Switch For Ships by Application in 2016
Figure Fishing Ships Examples
Table Major Consumers in Fishing Ships
Figure Traveling Ships Examples
Table Major Consumers in Traveling Ships
Figure Transporting Ships Examples
Table Major Consumers in Transporting Ships
Figure Military Ships Examples
Table Major Consumers in Military Ships
Figure Others Examples
Table Major Consumers in Others
Figure Market Share of Limit Switch For Ships by Regions
Figure North America Limit Switch For Ships Market Size (Million USD) (2012-2022)
Figure China Limit Switch For Ships Market Size (Million USD) (2012-2022)
Figure Europe Limit Switch For Ships Market Size (Million USD) (2012-2022)
Figure Southeast Asia Limit Switch For Ships Market Size (Million USD) (2012-2022)
Figure Japan Limit Switch For Ships Market Size (Million USD) (2012-2022)
Figure India Limit Switch For Ships Market Size (Million USD) (2012-2022)
Table Limit Switch For Ships Raw Material and Suppliers

Table Manufacturing Cost Structure Analysis of Limit Switch For Ships in 2016
Figure Manufacturing Process Analysis of Limit Switch For Ships
Figure Industry Chain Structure of Limit Switch For Ships
Table Capacity and Commercial Production Date of Global Limit Switch For Ships Major Manufacturers in 2016
Table Manufacturing Plants Distribution of Global Limit Switch For Ships Major Manufacturers in 2016
Table R&D Status and Technology Source of Global Limit Switch For Ships Major Manufacturers in 2016
Table Raw Materials Sources Analysis of Global Limit Switch For Ships Major Manufacturers in 2016
Table Global Capacity, Sales, Price, Cost, Sales Revenue (M USD) and Gross Margin of Limit Switch For Ships 2012-2017
Figure Global 2012-2017E Limit Switch For Ships Market Size (Volume) and Growth Rate
Figure Global 2012-2017E Limit Switch For Ships Market Size (Value) and Growth Rate
Table 2012-2017E Global Limit Switch For Ships Capacity and Growth Rate
Table 2016 Global Limit Switch For Ships Capacity (K Units) List (Company Segment)
Table 2012-2017E Global Limit Switch For Ships Sales (K Units) and Growth Rate
Table 2016 Global Limit Switch For Ships Sales (K Units) List (Company Segment)
Table 2012-2017E Global Limit Switch For Ships Sales Price (USD/Unit)
Table 2016 Global Limit Switch For Ships Sales Price (USD/Unit) List (Company Segment)
Figure North America Capacity Overview
Table North America Supply, Import, Export and Consumption (K Units) of Limit Switch For Ships 2012-2017E
Figure North America 2012-2017E Limit Switch For Ships Sales Price (USD/Unit)
Figure North America 2016 Limit Switch For Ships Sales Market Share
Figure China Capacity Overview
Table China Supply, Import, Export and Consumption (K Units) of Limit Switch For Ships 2012-2017E
Figure China 2012-2017E Limit Switch For Ships Sales Price (USD/Unit)
Figure China 2016 Limit Switch For Ships Sales Market Share
Figure Europe Capacity Overview
Table Europe Supply, Import, Export and Consumption (K Units) of Limit Switch For Ships 2012-2017E
Figure Europe 2012-2017E Limit Switch For Ships Sales Price (USD/Unit)
Figure Europe 2016 Limit Switch For Ships Sales Market Share
Figure Southeast Asia Capacity Overview

Table Southeast Asia Supply, Import, Export and Consumption (K Units) of Limit Switch For Ships 2012-2017E

Figure Southeast Asia 2012-2017E Limit Switch For Ships Sales Price (USD/Unit)

Figure Southeast Asia 2016 Limit Switch For Ships Sales Market Share

Figure Japan Capacity Overview

Table Japan Supply, Import, Export and Consumption (K Units) of Limit Switch For Ships 2012-2017E

Figure Japan 2012-2017E Limit Switch For Ships Sales Price (USD/Unit)

Figure Japan 2016 Limit Switch For Ships Sales Market Share

Figure India Capacity Overview

Table India Supply, Import, Export and Consumption (K Units) of Limit Switch For Ships 2012-2017E

Figure India 2012-2017E Limit Switch For Ships Sales Price (USD/Unit)

Figure India 2016 Limit Switch For Ships Sales Market Share

Table Global 2012-2017E Limit Switch For Ships Sales (K Units) by Type

Table Different Types Limit Switch For Ships Product Interview Price

Table Global 2012-2017E Limit Switch For Ships Sales (K Units) by Application

Table Different Application Limit Switch For Ships Product Interview Price

Table Aleko Information List

Table Product A Overview

Table Product B Overview

Table 2016 Aleko Limit Switch For Ships Revenue (Million USD), Sales (K Units), Ex-factory Price (USD/Unit)

Figure 2016 Aleko Limit Switch For Ships Business Region Distribution

Table ABB Information List

Table Product A Overview

Table Product B Overview

Table 2016 ABB Limit Switch For Ships Revenue (Million USD), Sales (K Units), Ex-factory Price (USD/Unit)

Figure 2016 ABB Limit Switch For Ships Business Region Distribution

Table SKF Information List

Table Product A Overview

Table Product B Overview

Table 2015 SKF Limit Switch For Ships Revenue (Million USD), Sales (K Units), Ex-factory Price (USD/Unit)

Figure 2016 SKF Limit Switch For Ships Business Region Distribution

Table 3M Information List

Table Product A Overview

Table Product B Overview

Table 2016 3M Limit Switch For Ships Revenue (Million USD), Sales (K Units), Ex-factory Price (USD/Unit)

Figure 2016 3M Limit Switch For Ships Business Region Distribution

Table Siemens Information List

Table Product A Overview

Table Product B Overview

Table 2016 Siemens Limit Switch For Ships Revenue (Million USD), Sales (K Units), Ex-factory Price (USD/Unit)

Figure 2016 Siemens Limit Switch For Ships Business Region Distribution

Table Honeywell Information List

Table Product A Overview

Table Product B Overview

Table 2016 Honeywell Limit Switch For Ships Revenue (Million USD), Sales (K Units), Ex-factory Price (USD/Unit)

Figure 2016 Honeywell Limit Switch For Ships Business Region Distribution

Table General Electric Information List

Table Product A Overview

Table Product B Overview

Table 2016 General Electric Limit Switch For Ships Revenue (Million USD), Sales (K Units), Ex-factory Price (USD/Unit)

Figure 2016 General Electric Limit Switch For Ships Business Region Distribution

Table Crouzet Information List

Table Product A Overview

Table Product B Overview

Table 2016 Crouzet Limit Switch For Ships Revenue (Million USD), Sales (K Units), Ex-factory Price (USD/Unit)

Figure 2016 Crouzet Limit Switch For Ships Business Region Distribution

Table Unimax Information List

Table Product A Overview

Table Product B Overview

Table 2016 Unimax Limit Switch For Ships Revenue (Million USD), Sales (K Units), Ex-factory Price (USD/Unit)

Figure 2016 Unimax Limit Switch For Ships Business Region Distribution

Table Schneider Electric Information List

Table Product A Overview

Table Product B Overview

Table 2016 Schneider Electric Limit Switch For Ships Revenue (Million USD), Sales (K Units), Ex-factory Price (USD/Unit)

Figure 2016 Schneider Electric Limit Switch For Ships Business Region Distribution

Table Allen-Bradley Information List

Table CPI Information List

Table Jameco Valuepro Information List

Table Mayr Information List

Table Eaton Information List

Table SAMSON Information List

Table CROUZET SWITCHES Information List

Table BERNSTEIN AG Information List

Table Yaskawa Controls Information List

Figure Global 2017-2022 Limit Switch For Ships Market Size (K Units) and Growth Rate Forecast

Figure Global 2017-2022 Limit Switch For Ships Market Size (Million USD) and Growth Rate Forecast

Figure Global 2017-2022 Limit Switch For Ships Sales Price (USD/Unit) Forecast

Figure North America 2017-2022 Limit Switch For Ships Consumption Volume (K Units) and Growth Rate Forecast

Figure China 2017-2022 Limit Switch For Ships Consumption Volume (K Units) and Growth Rate Forecast

Figure Europe 2017-2022 Limit Switch For Ships Consumption Volume (K Units) and Growth Rate Forecast

Figure Southeast Asia 2017-2022 Limit Switch For Ships Consumption Volume (K Units) and Growth Rate Forecast

Figure Japan 2017-2022 Limit Switch For Ships Consumption Volume (K Units) and Growth Rate Forecast

Figure India 2017-2022 Limit Switch For Ships Consumption Volume (K Units) and Growth Rate Forecast

Table Global Sales Volume (K Units) of Limit Switch For Ships by Type 2017-2022

Table Global Consumption Volume (K Units) of Limit Switch For Ships by Application 2017-2022

Table Traders or Distributors with Contact Information of Limit Switch For Ships by Region

I would like to order

Product name: Global Limit Switch For Ships Market Professional Survey Report 2017

Product link: <https://marketpublishers.com/r/G99BB343529EN.html>

Price: US\$ 3,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G99BB343529EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970